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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,304	11/20/2001	Debashis Haldar	1776	4837

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EXAMINER
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AVELLINO, JOSEPH E

ART UNIT	PAPER NUMBER
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2143

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/23/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

# Office Action Summary

Application No.

09/998,304

Applicant(s)

HALDAR ET AL.

Examiner

Joseph E. Avellino

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 16 December 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 6,12,15-20 and 27-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 6,12,15-20 and 27-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

1. Claims are pending in this examination. The Office acknowledges the addition of claim 30.

#### ***Claim Rejections - 35 USC § 101***

1. In light of the amendments to the claims. The rejection under this heading is withdrawn.

#### ***Claim Rejections - 35 USC § 103***

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claims **6, 12, 15-20,27-30** are rejected under 35 U.S.C. 103(a) as being unpatentable over Herz (U.S. Patent Number **6,460,036 B1**), hereinafter referenced to as Herz in view of Eichstaedt et al. (U.S. Patent Number **6,654,735 B1**) hereinafter referenced to as Eichstaedt in view of Shimizu et al. (USPN 5,821,929) (hereinafter Shimizu), and further in view of Rose et al (U.S. Patent Number **5,724,567**) hereinafter referenced to as Rose in view of Liu (USPN 5,825,789).
2. Referring to exemplary claim 6, Herz discloses a method/system for measuring an Internet user's level of interest in a given subject comprising:

establishing a count of web pages sent to a user that each contain at least a threshold number of keywords related to the given subject (**column 13 lines 5-17, column 15 lines 25-34 and column 17 lines 10-24**); and

using the count as a basis to establish a measure of the user's interest in the given subject and using a combination of values (**abstract, column 12 lines 44-52, from column 58 line 55 to column 60 line 11 and column 13 lines 5-9**). Herz expressively disclosed an invention counting relevant words and documents viewed by the user and using such counts to determine a user's interest level, see **column 13**.

Herz did not expressively teach the invention *without a user's first created profile*. In analogous art, Eichstaedt, taught determining the interest level of a user in a particular subject, disclosed a method that determines a user's interest level *without a first created profile* therefore providing a *fully passive method* to determine a user's interest level by analyzing words in the input provided by a user (**abstract, column 11 lines 32-40 and column 12 lines 40-44**). Furthermore, Eichstaedt discloses flagging documents that contain a minimum number of keywords (i.e. if the document is related to the particular interest, then it inherently must have at least one keyword which will fall into that particular interest category) (col. 8, lines 45-55). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the methods/systems of Herz with the teachings of Eichstaedt, motivated by Herz to explore the art of searching the Internet (**column 2 lines 5-12, column 60 lines 44-49**) and screening emails (**column 56 lines 44-49**), in order to provide a method/system that

initiates the determination of a user interest level analyzing Herz's documents presented to the user with a passive and easier method for the user as supported by Eichstaedt (col. 1, lines 55-60).

Herz in view of Eichstaedt did not specifically state capping the count, at a maximum predetermined number of keywords (threshold). In analogous art, Shimizu discloses another network keyword determination system which teaches placing a maximum number of how many times a term appears in a document (Figure 13, ref. S1303: N). It would have been obvious to one of ordinary skill in the art to combine the teaching of Shimizu with Herz and Eichstaedt in order to prevent one document with numerous keywords from skewing the document frequency values, therefore if a plurality of non-keyword documents are found, and one document with a very high level of keywords, this document will not provide a false interest in this particular subject, resulting in a greater level of accuracy for the calculations. Furthermore, the sum of the keyword counts inherently would be less than the count of web pages multiplied by the maximum number of keywords, since if the cap is set at the maximum, then multiplying the cap by the number of pages would yield the maximum multiplied by the number of pages. Therefore the combination taught a numeric value representing the documents visited or sent to the user. Herz further taught pages satisfying a threshold on a particular subject as explained above using Herz teachings found in **(column 13 lines 5-17, column 15 lines 25-34 and column 17 lines 10-24)**. Herz further taught the use of the actual count value of keywords in **column 13 lines 5-9**.

3. The cited references above did not expressly teach the algorithm occurring in a mobile IP home agent. In analogous art, Liu discloses utilizing a home user agent to transfer data from a home user cache 51 to be placed in the secondary cache of a foreign agent to be used by the mobile device (col. 7, lines 1-14). One of ordinary skill in the art would realize the benefits of utilizing the algorithm above in the home agents in order to prefetch data of interest to the user, thereby reducing data fetch times and thereby increasing the throughput of the overall system.

Claims 27-30 are rejected for similar reasons as stated above. Furthermore Shimizu states that the maximum keyword count is assumed to be five, which would indicate to one of ordinary skill in the art that this value could be arbitrarily changed, resulting in a maximum keyword count of ten and the minimum threshold. Furthermore Eichstaedt disclose that a single keyword is required in order to be considered into a profile interest category.

Regarding claims **16-19**, Eichstaedt taught combining past measures with present measures to provide a combined or composite measure (**column 5 lines 19-40**) and techniques to give different credit (weighted) to the time stamp of an email (document or object) (**column 9 line 64 to column 10 line 10**). Eichstaedt expressively taught the

combination of principal and new measure in the form of current and long-term interests and giving less importance to older interests using a scoring function.

The combination of Herz, Eichstaedt and Shimizu taught the intention substantially as claimed, however the combination of Herz, Eichstaedt and Shimizu did not teach specific details regarding establishing a sum of the values of keywords related to the given subject mater that appear in the web page.

Rose, in the same field of endeavor related to improve the retrieval of desirable objects, taught establishing a sum of the values of keywords related to the given subject mater that appear in the web page (**column 6 lines 4-17**). Rose recites, "In a content-based approach, each term, e.g. each word, in a document can be assigned a weight, based on its statistical importance. Thus, for example, words which frequently occur in a particular language are given a low weight value, while those which are rarely used have a high weight value. The weight value for each term is multiplied by the number of times that term occurs in the document." Therefore Rose discloses a mathematical procedure that produces the same result of the claimed invention.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the combination of Herz, Eichstaedt and Shimizu with the teachings of Rose, motivated by Shimizu and Rose to explore the art of measuring

interest of objects displaying only selected or discriminated objects (**See abstract in Shimizu and column 4 line 63 to column 5 line 3 in Rose**), in order to obtain a system that count relevant words in a document and provides a means for computing the total of a sum of values corresponding to relevant words the n times the relevant word appears in a document.

### ***Response to Arguments***

4. Applicant's arguments filed December 18, 2006 have been fully considered but they are not persuasive.
5. In the remarks, Applicant argues, in substance, that (1) Herz does not disclose a minimum threshold of keywords.
6. As to point (1), Applicant will appreciate that in order for the profile generation services of Eichstaedt to take place, then the page must contain at least one keyword for that particular interest (i.e. the profile would not consider 'boating' as an interest if none of the pages contain anything about boats). By this rationale, the rejection is maintained.
7. Applicant's other arguments are considered moot in view of the new grounds of rejection presented above.



***Conclusion***

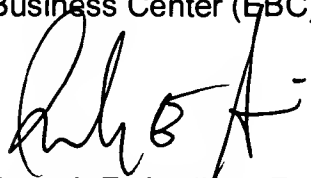
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892 for details.

8. Applicant employs broad language, which includes the use of word, and phrases, which have broad meanings in the art. In addition, Applicant has not argued any narrower interpretation of the claim language, nor amended the claims significantly enough to construe a narrower meaning to the limitations. As the claims breadth allows multiple interpretations and meanings, which are broader than Applicant's disclosure, the Examiner is forced to interpret the claim limitations as broadly and as reasonably possible, in determining patentability of the disclosed invention. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir.1993). Failure for Applicant to significantly narrow definition/scope of the claims and supply arguments commensurate in scope with the claims implies the Applicant intends broad interpretation be given to the claims. The Examiner has interpreted the claims with scope parallel to the Applicant in the response, and reiterates the need for the Applicant to more clearly and distinctly, define the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (571) 272-3905. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Joe A.', is positioned above the printed name of the examiner.

Joseph E. Avellino, Examiner  
January 9, 2007